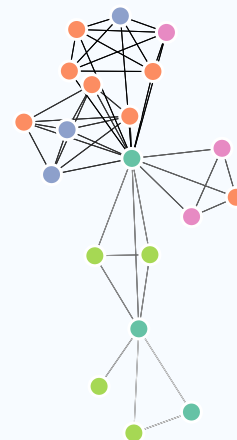# ALBERT FRADERA SOLA

I consider myself as a multi-task and open-minded person. I enjoy having excellent relationship with my colleagues and I can easily adapt to different and new projects. I am very committed to my work and I always try to give the maximum performance in order to achieve the best results. My ambition and optimism are my strengths to achieve my challenges.

🎓 EDUCATION

Current | 2018

PhD. Candidate, Quantitative Proteomics
JGU University 📍 Mainz, Germany

· Working on quantitative proteomics, with a focus on RNA-Protein interactions

2018 | 2016

MSc in Omics Data Analysis
University of Vic 📍 Barcelona, Spain

· Master thesis: Development of a scoring function for finding differential expression - application to Lolium Perenne
· Erasmus + grant fellow

2016 | 2011

Bachelor in Biochemistry
University of Barcelona 📍 Barcelona, Spain

· Bachelor thesis: NMR studies on IDP proteins - application to alpha synuclein
· Erasmus + grant fellow

🌐 ONLINE EDUCATION

Current | 2021

Practical Machine learning course
Coursera, Johns Hopkins University

· Part 3 of the data science specialization

2020

Statistical Inference course
Coursera, Johns Hopkins University

· Part 1 of the data science specialization
· https://coursera.org/share/b7d93b26dd10fa7719ed0ca7c7d3f470

2020

Regression Models course
Coursera, Johns Hopkins University

· Part 2 of the data science specialization
· https://coursera.org/share/df577759d0cb2659bc1a31f8669a0815

View this CV online with links at
https://github.com/AFraderaSola/CV/

CONTACT

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📝 a-fraderasola
🪪 orcid.org/0000-0002-4780-9312

SOFTWARE SKILLS

| R |
| Bash |
| Python |

LANGUAGE SKILLS

| Catalan |
| Spanish |
| English |
| German |

🧪 RESEARCH EXPERIENCE

PhD Student
Butter laboratory - IMB (JGU university)   📍 Mainz, Germany

· PhD student with Dr. Falk Butter (F.Butter@imb-mainz.de)
· Genomics (RNAseq, ChIPseq) and proteomics data management, analysis and integration.
· Project 1: Characterization of the RNA binding proteins interactome in yeast
· Project 2: Developmental proteome quantificacion in Xenopus
· Publications: 5 co-author papers

Research assistant
Butter laboratory - IMB (JGU university)   📍 Mainz, Germany

· Research assistant with Dr. Falk Butter (F.Butter@imb-mainz.de)
· Genomics (RNAseq, ChIPseq) data management, analysis and integration.

Master student
Narcs Fernandez-Fuentes - IBERS (Aberystwyth University)
📍 Aberystwyth, UK

· MSc student with Dr. Narcs Fernandez-Fuentes (naf4@aber.ac.uk)
· Development of a scoring function for assessing transcriptome differential expression on Lolium Perenne
· Publications: 1 first-authtor paper, 1 co-author paper

Bachelor student
Konrat laboratory - MFPL (Universitt Wien)   📍 Vienna, Austria

· BSc student with Dr. Robert Konrat (Robert.Konrat@univie.ac.at)
· Recording and Analysis of NMR Spectroscopic Data

📖 SELECTED PUBLICATIONS

Characterization of the Novel Mitochondrial Genome Segregation Factor TAP110 in Trypanosoma brucei
Journal of Cell Science

· Co-author with Simona Amodeo, Ana Kalichava, Eloise Bertiaux, Paul Guichard, Falk Butter and Torsten Ochsenreiter
· https://jcs.biologists.org/content/early/2021/02/10/jcs.254300

A comparison of shared patterns of differential gene expression and gene ontologies in response to water–stress in roots and leaves of four diverse genotypes of Lolium and Festuca spp. temperate pasture grasses
PLOS one

· Co-author with Yuan Fu, Ann Thomas, Dagmara Gasior, John Harper, Alan Gay, Charlotte Jones, Matthew Hegarty, Torben Asp, Ian Armstead, Narcis Fernandez-Fuentes
· https://doi.org/10.1371/journal.pone.0249636

Using multiomics tools to integrate different research disciplines, with a special focus on RNA-Protein interactions

2021 A novel SNF2 ATPase complex in Trypanosoma brucei with a role in H2A.Z-mediated chromatin remodelling

bioRxiv

- Co-author with Tim Vellmer, Laura Hartleb, Susanne Kramer, Elisabeth Meyer-Natus, Falk Butter, Christian J Janzen
- https://doi.org/10.1101/2021.04.06.438560

2020 Characterization of two novel proteins involved in mitochondrial DNA anchoring

bioRxiv

- Co-author with Simona Amodeo, Anneliese Hoffmann, Irina Bregy, Hlne Baudouin, Beat Haenni, Benot Zuber, Falk Butter and Torsten Ochsenreiter
- https://www.biorxiv.org/content/10.1101/2020.07.22.215871v1

2020 The double-stranded DNA-binding proteins TEBP-1 and TEBP-2 form a telomeric complex with POT-1

bioRxiv

- Co-author with Sabrina Dietz, Miguel Vasconcelos Almeida, Emily Nischwitz, Jan Schreier, Nikenza Viceconte, Christian Renz, Alejandro Ceron-Noriega, Helle D. Ulrich, Dennis Kappei, Ren F. Ketting, Falk Butter
- https://www.biorxiv.org/content/10.1101/2020.08.19.256388v1

2020 PAR-TERRA is the main contributor to telomeric repeat-containing RNA transcripts in normal and cancer mouse cells

RNA

- Co-author with Nikenza Viceconte, Axelle Loriot, Patrcia Lona Abreu, Marion Scheibe, Falk Butter, Charles De Smet, Claus M. Azzalin2 Nausica Arnoult and Anabelle Decottignies
- https://rnajournal.cshlp.org/content/27/1/106

2019 Differential gene expression and gene ontologies associated with increasing water-stress in leaf and root transcriptomes of perennial ryegrass (Lolium perenne)

PLOS one

- Authored with Ann Thomas, Ian Armstead, Narcis Fernandez-Fuentes
- https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0220518

CONFERENCES, TALKS AND POSTERS

2021 Network biology

CSH   NYC, USA

- Conference attendance and oral presentation
- Characterization of the RBP interactome in yeast by quantitative proteomics

2019 ● **Workshop on chromatin proteomics**
FEBS advanced course 📍 Heraklion, Greece

- Conference attendance and poster presentation
- Mass spectrometry based quantitative proteomics to systematically characterize long non-coding RNAs

2019 ● **Chromosome territories and nuclear architecture**
IMB conference 📍 Mainz, Germany

- Conference attendance and organization helper